## AMENDMENTS TO THE CLAIMS

1 (currently amended). A method for controlling the cure rate of a water compatible non emulsion, non dispersing actinic radiation curable <u>aqueous</u> composition containing a maleimide derivative [and] having the structure:

wherein n and m each independently represent an integer of 1 to 5, the sum of m and n is 6 or smaller;

 $R_{11}$  and  $R_{12}$  each independently represent a linking group selected from the group consisting of an alkylene group, an alicyclic group, an arylalkylene group, and a cycloalkylalkyene group;

 $G_1$  and  $G_2$  each represent an ester linkage selected from the group consisting of -- COO-- and --OCO--;

and R<sub>2</sub> represents a linking chain having an average molecular weight of 100 to 100,000 selected from the group consisting of a (poly)ether or (poly)ester linking chain, in which at least one organic group consists of a group or groups selected from a straight or branched chain alkylene group, an alkylene group having a hydroxyl group, an alicyclic group, an aryl group, an arylalkylene group, and a cycloalkylalkyene group connected via at least one linkage selected from the group consisting of an ether or ester linkage;

wherein said method comprises adjusting the molecular weight of  $R_2$ , in the absence of a photoinitiator, to control the cure rate of the composition.

2 (original). The method of claim 1 wherein when the molecular weight of  $R_2$  is increased so as to increase the cure rate of said water compatible actinic radiation curable composition containing a maleimide derivative.

- 3 (original). The method of claim 1 wherein when the molecular weight of  $R_2$  is decreased so as to decrease the cure rate of said water compatible actinic radiation curable composition containing a maleimide derivatives.
- 4 (original). The method of claim 1 wherein R<sub>2</sub> linking chain has an average molecular weight of 100 to 100,000.
- 5 (original). The method of claim 1 wherein R<sub>2</sub> is selected from the group consisting of (poly)ether linking chains, (poly)ester linking chains and mixtures thereof, in which at least one organic group consists of a group or groups selected from a straight or branched chain alkylene group, an alkylene group having a hydroxyl group, an alicyclic group, an aryl group, an arylalkylene group, and a cycloalkylalkylene group connected via at least one linkage selected from the group consisting of an ether and ester linkage.
- 6 (currently amended). The method of claim 5 wherein  $R_2$  incorporates repeating units containing at least one group selected from a  $C_2$ - $C_{24}$  straight or branched chain alkylene group, and a  $C_2$ - $C_{24}$  alkylene group having a hydroxyl group.
- 7 (original). The method of claim 6 wherein  $R_2$  is a (poly)ester linking chain having an average molecular weight of 100 to 100,000 and incorporates repeating units containing at least one group selected from a  $C_2$ - $C_{24}$  straight or branched chain alkylene group, a  $C_2$ - $C_{24}$  alkylene group having a hydroxyl group and a  $C_6$ - $C_{24}$  aryl group.
- 8 (original). The method of claim 6 wherein  $R_2$  is a (poly)ether linking chain having an average molecular weight of 100 to 100,000 and incorporates repeating units containing at least one group selected from a  $C_2$ - $C_{24}$  straight or branched chain alkylene group, a  $C_2$ - $C_{24}$  alkylene group having a hydroxyl group and a  $C_6$ - $C_{24}$  aryl group.
- 9. The method of claim 8 wherein R<sub>2</sub> is polytetramethylene glycol or polyethylene glycol.

10 (original). The method of claim 9 wherein  $R_2$  is a polytetramethylene glycol having an average molecular weight of 100 to 4000.

(original). The method of claim 10 wherein  $R_2$  is a polyethylene glycol having an average molecular weight of 100 to 1000.